Fig. 1(Prior Art)

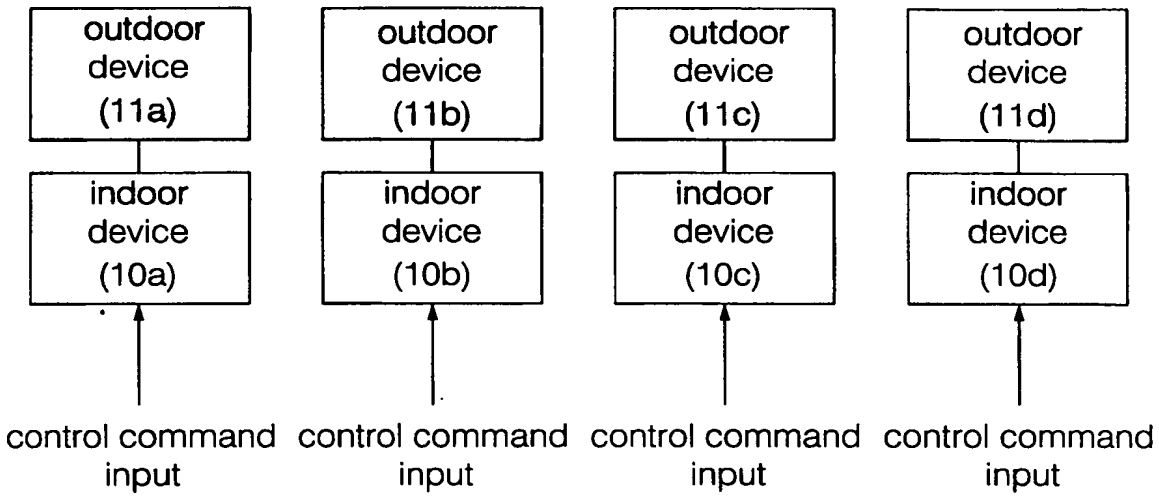


Fig. 2

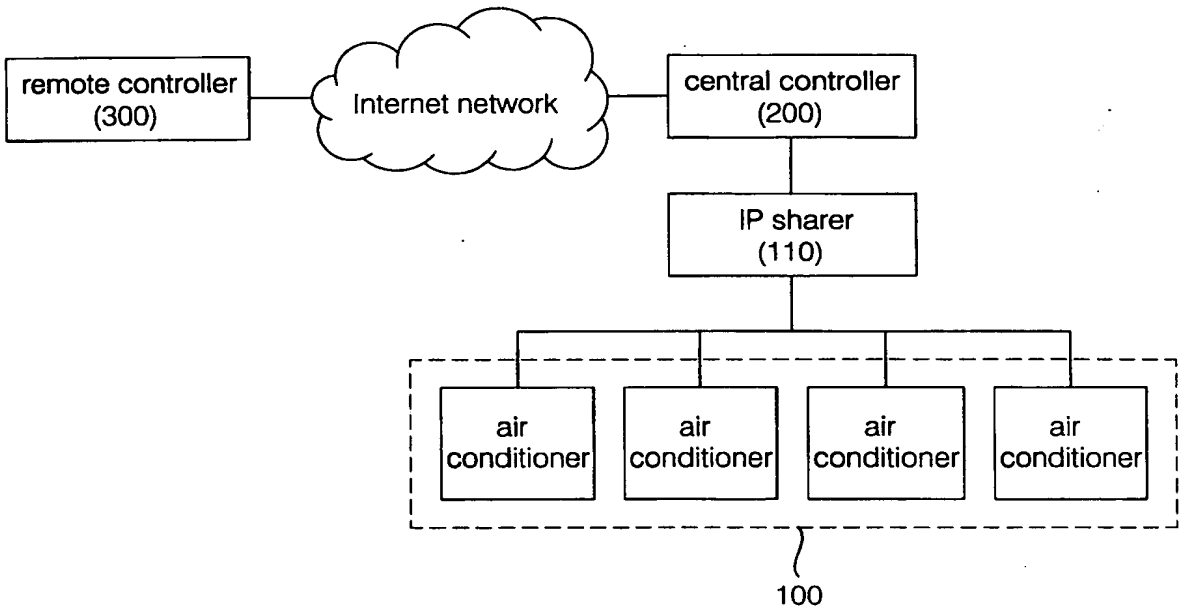

remote controller
(300)
Internet network
central controller
(200)
IP sharer
(110)
air conditioner
air conditioner
air conditioner
air conditioner
100

Fig. 3

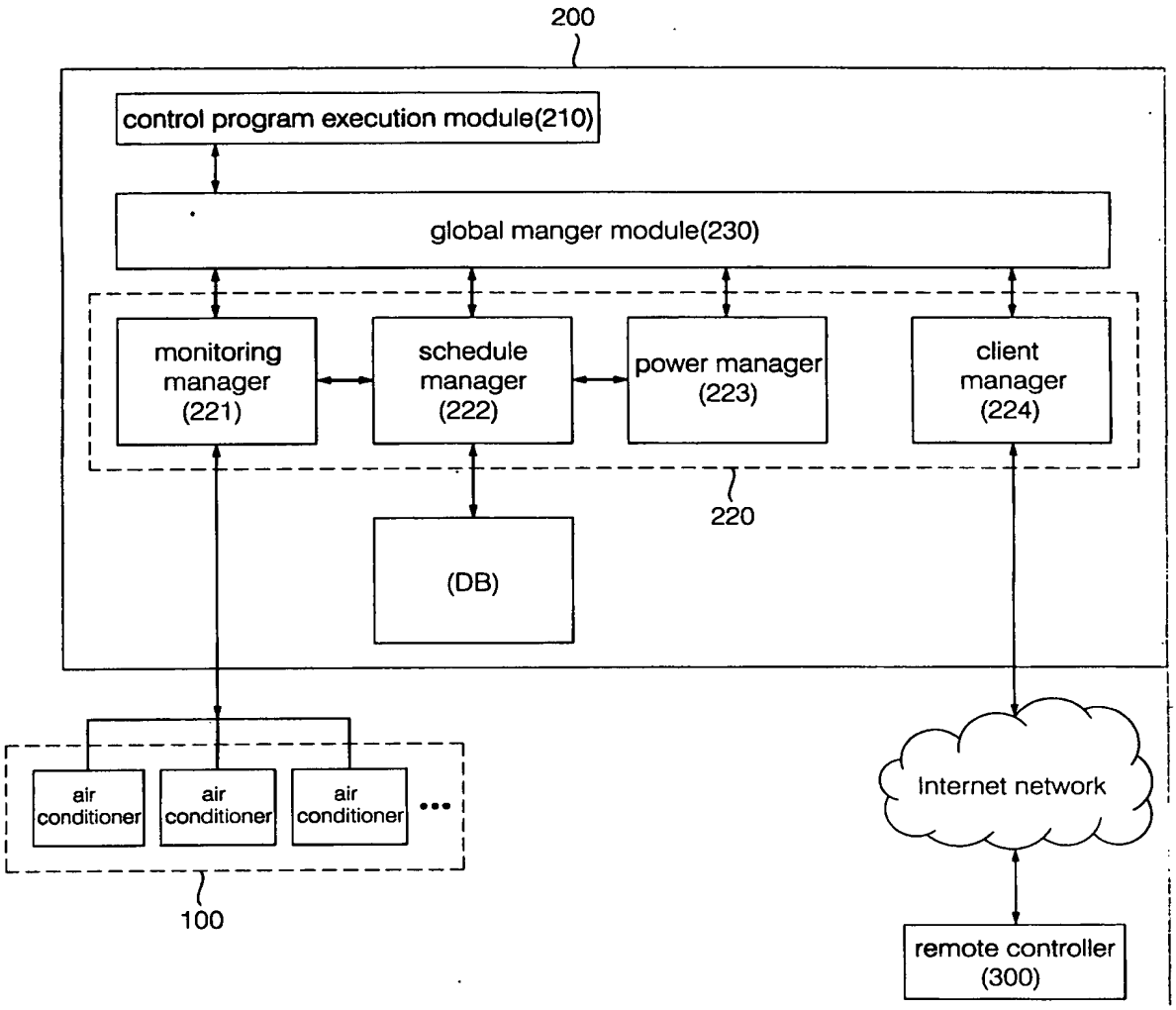

200
control program execution module(210)
global manger module(230)
monitoring manager (221)
schedule manager (222)
power manager (223)
client manager (224)
220
(DB)
air conditioner
air conditioner
air conditioner
100
Internet network
remote controller (300)

Fig. 4

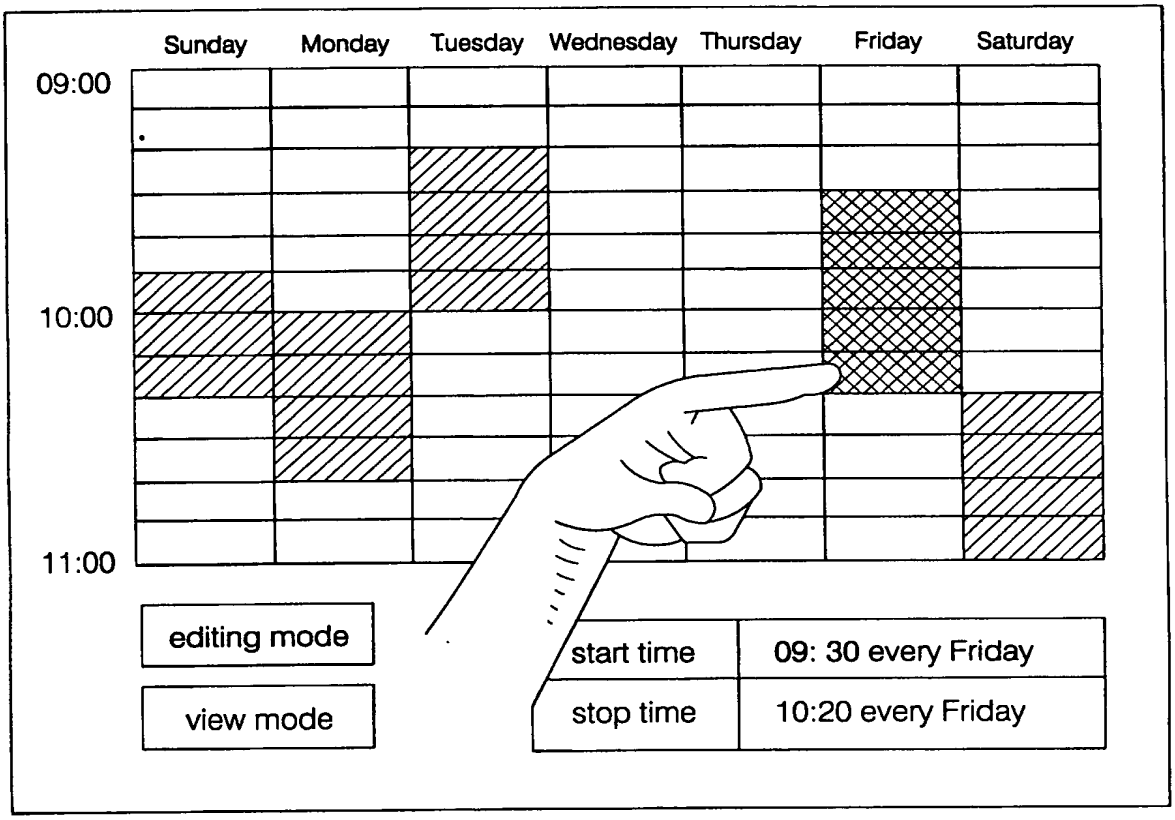

Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
09:00
10:00
11:00
editing mode
view mode
start time
09: 30 every Friday
stop time
10:20 every Friday

Fig. 5

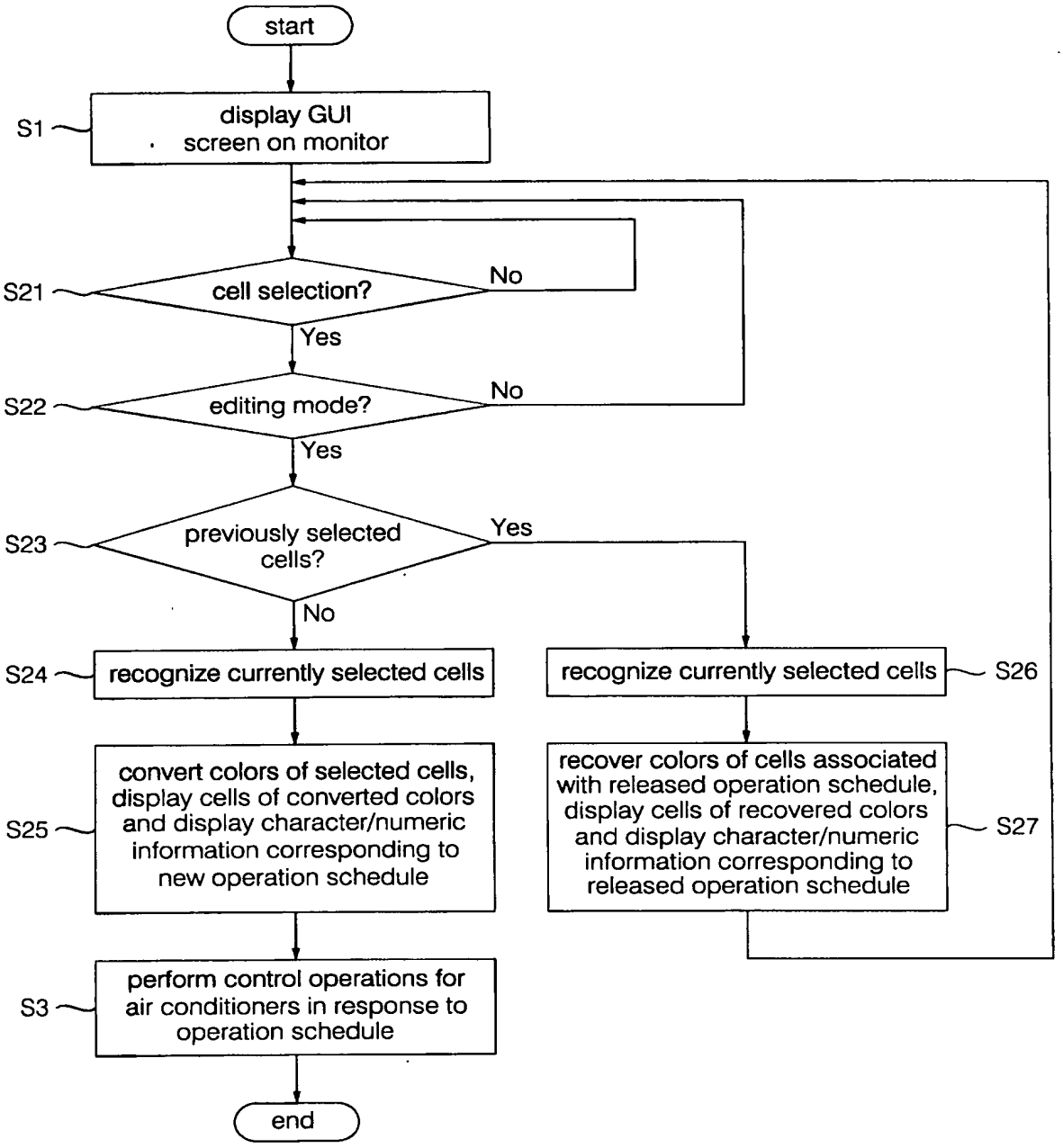

start
S1
display GUI screen on monitor
S21
cell selection?
No
Yes
S22
editing mode?
No
Yes
S23
previously selected cells?
Yes
No
S24
recognize currently selected cells
S25
convert colors of selected cells, display cells of converted colors and display character/numeric information corresponding to new operation schedule
S3
perform control operations for air conditioners in response to operation schedule
end
recognize currently selected cells
S26
recover colors of cells associated with released operation schedule, display cells of recovered colors and display character/numeric information corresponding to released operation schedule
S27

Fig. 6

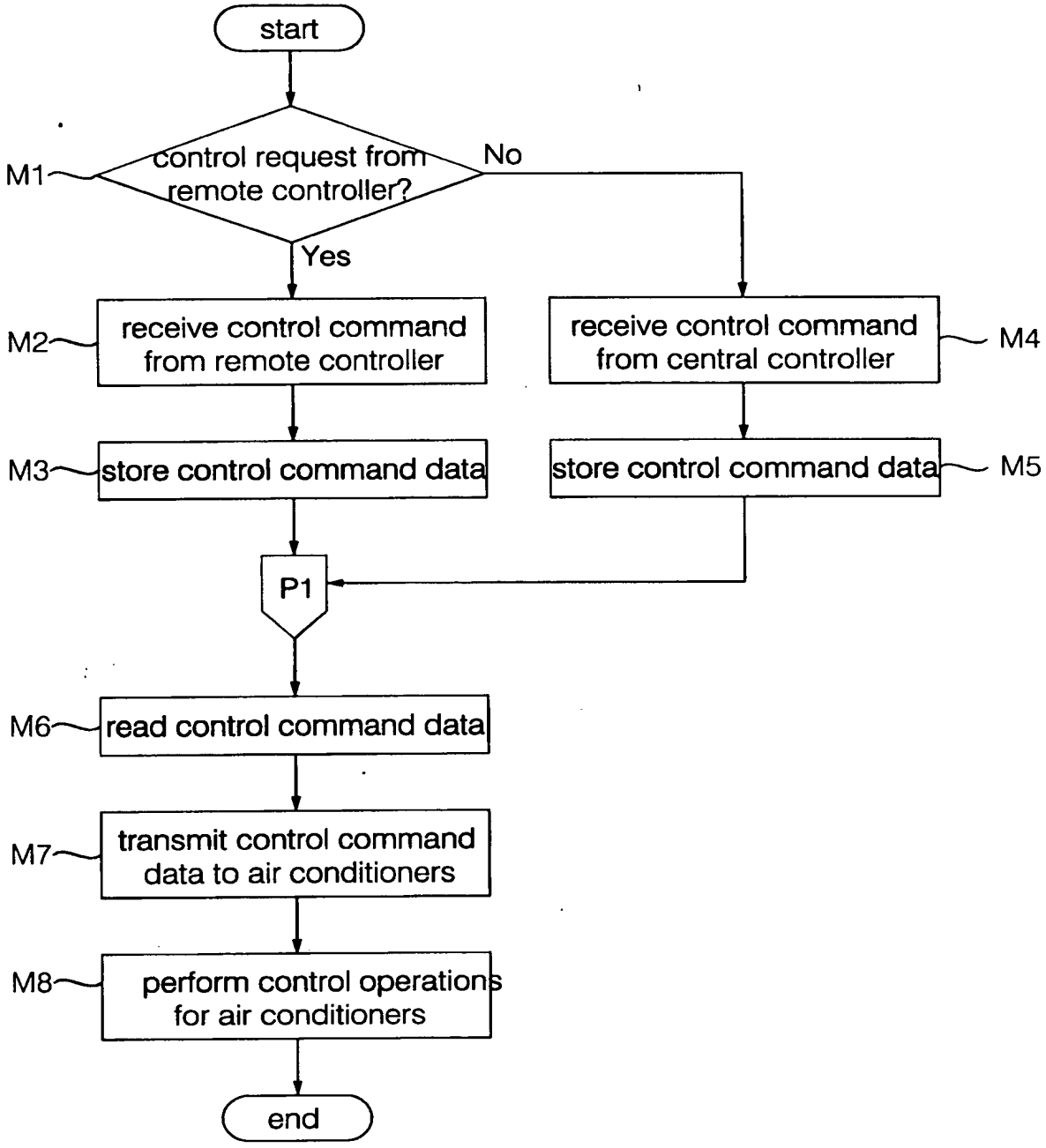
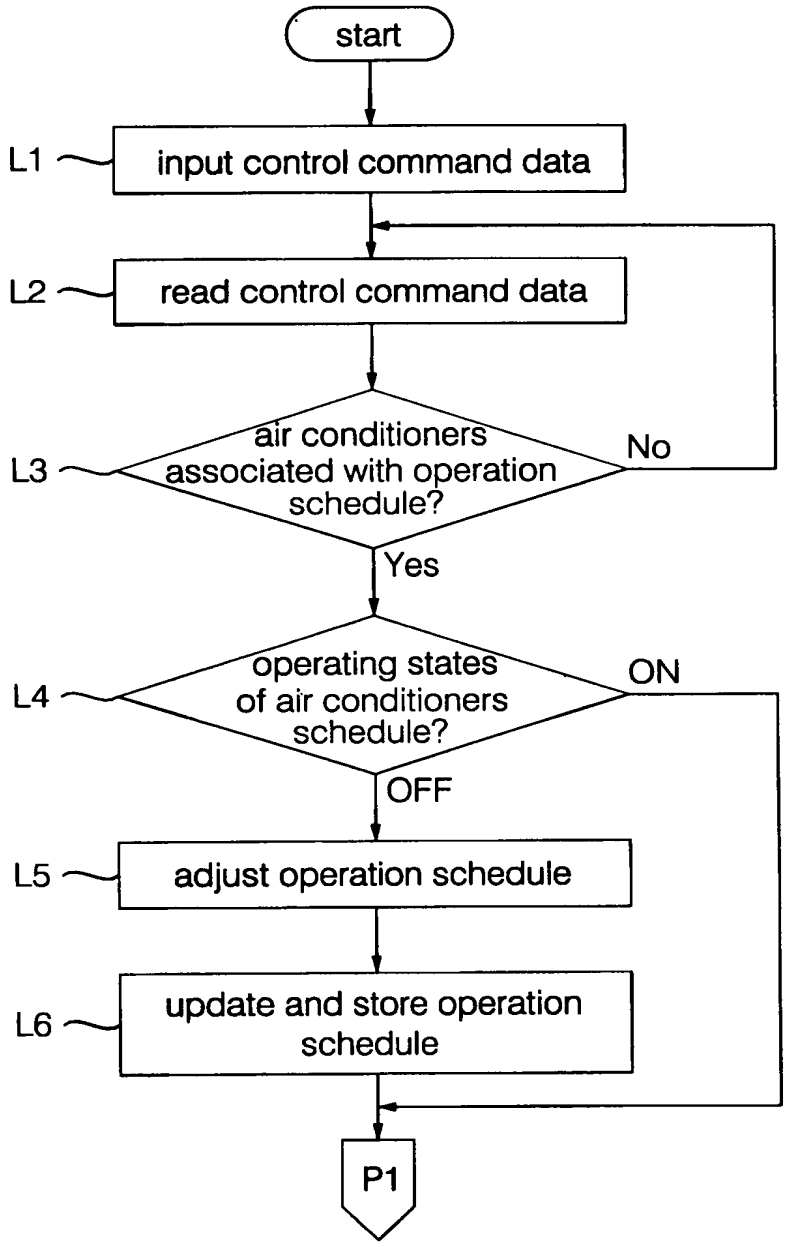

start
control request from remote controller?
No
Yes
M1
receive control command from remote controller
M2
receive control command from central controller
M4
store control command data
M3
store control command data
M5
P1
read control command data
M6
transmit control command data to air conditioners
M7
perform control operations for air conditioners
M8
end

Fig. 7


start
L1
input control command data
L2
read control command data
L3
air conditioners associated with operation schedule?
No
Yes
L4
operating states of air conditioners schedule?
ON
OFF
L5
adjust operation schedule
L6
update and store operation schedule
P1